

1200 ~ 1600 MHz Low Noise Amplifier¹

Key Features:

| | |
|-------------------------|------------------------|
| Broad Frequency Range: | 1200 ~ 1600 MHz |
| High Gain: | 35 dB |
| Low Noise Figure | 0.7 dB |
| High P _{1dB} : | 19 dBm |
| Single DC Supply: | 90 mA @ +5V |
| Package: | SMT, 0.50"x0.35"x0.08" |
| Built-in Functions: | Limiter for protection |

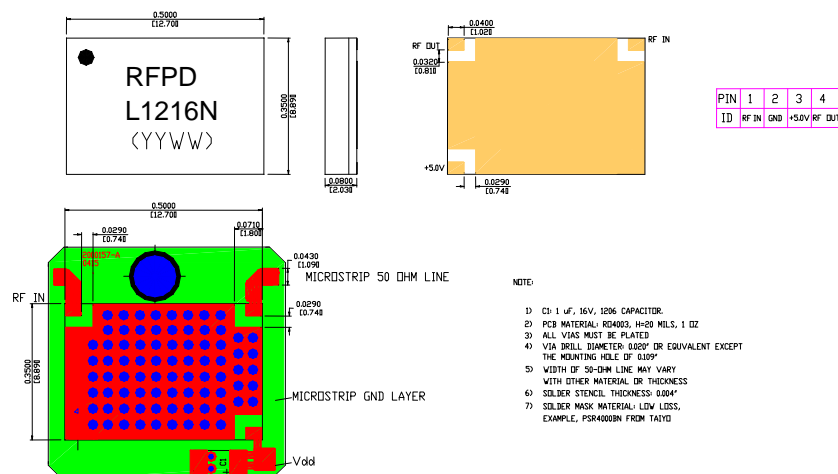
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RLAS1216N is designed to meet the rugged standards of MIL-STD-202 and MIL-STD-883.

Electrical Specifications: (at +25 °C)

| Testing Item | Symbol | Test Condition | Min | Nom | Max | Unit |
|----------------------------------|------------------|-------------------------|------|----------|--------|--------|
| Frequency Range | BW | | 1200 | | 1600 | MHz |
| Gain | S ₂₁ | 1200 ~ 1600 MHz | | 35 | | dB |
| Gain Variation | ΔG | 1200 ~ 1600 MHz | | +/- 0.75 | +/-1.0 | dB |
| Input VSWR | S ₁₁ | 1200 ~ 1600 MHz | | 1.22:1 | 1.3:1 | |
| Output VSWR | S ₂₂ | 1200 ~ 1600 MHz | | 1.22:1 | 1.3:1 | |
| Noise Figure | NF | 1200 ~ 1600 MHz | | 0.7 | 0.8 | dB |
| Output Power @ 1dB Compression | P _{1dB} | 1200 ~ 1600 MHz | 17 | 19 | | dBm |
| Output IP3 | OIP ₃ | 2-tone, +0 dBm per tone | | 31 | | dBm |
| Amplitude Variation | | | | +/- 0.25 | | dB |
| Phase Variation | | | | +/- 5 | | Degree |
| Maximum Input Power with Limiter | | | | 30 | | dBm |
| Current Consumption | I _{dd} | V _{dd} = +5 V | | 90 | | mA |
| Power Supply Voltage | V _{dd} | | | +5 | | V |
| Operating Temperature | T _o | | -45 | | +85 | °C |

Outline Drawing



¹ Specifications are subject to change without notice.

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Ordering Information

| | |
|--------------------|-----------|
| Part Number | RLAS1216N |
|--------------------|-----------|

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